



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: David C. Brown, et al., **GROUP:** 2874
SERIAL NO: 10/075,930 **EXAMINER:** Sanghavi, H.
FILED: February 13, 2002
FOR: METHOD AND APPARATUS FOR BEAM DEFLECTION

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

In compliance with 37 C.F.R. §§1.56, 1.97, and 1.98, Applicant submits copies of the documents listed on the attached Form PTO-1449.

Applicant believes that no fee is required in connection with this submission, however, the Commissioner is authorized to charge Deposit Order Account No. 19-0079 for any fee that is required.

Respectfully submitted,

William E. Hilton
Registration No. 35,192
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CERTIFICATE OF EXPRESS MAIL UNDER 37 C.F.R. §1.10

I hereby certify that this Information Disclosure Statement and the documents referred to as enclosed therein are being deposited with the United States Postal Service on June 30, 2004 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EV383578574US addressed to the: Commissioner of Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

Meghan H. Carr

FORM PTO-1449
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ATTORNEY DOCKET NO. 6689-C

SERIAL NO. 10/075,930

APPLICANT: David C. Brown, et al.

GROUP: 2874

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

JUN 30 2004

FILING DATE: February 13, 2002

EXAMINER: Sanghavi, H.

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,717,223	01/1988	Ishida et al.			
	AB	4,523,800	06/1985	Yamashita et al.			
	AC	5,606,448	02/1997	Suzuki et al.			
	AD	6,377,293	04/2002	Koh et al.			
	AE	6,560,384 B1	05/2003	Helkey et al.			
	AF	6,549,691	04/2003	Street et al.			
	AG						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ						
	AK						
	AL						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

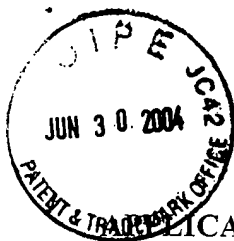
EXAMINER INITIAL		
	AM	
	AN	
	AO	

EXAMINER

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APPLICANT: David C. Brown, et al. GROUP: 2874
SERIAL NO: 10/075,930 EXAMINER: unknown
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Assistant Commissioner of Patents
P.O. Box 1450
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Respectfully submitted,

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ATTORNEY DOCKET NO. 6689-C

SERIAL NO. 10/075,930

APPLICANT: David C. Brown, et al.

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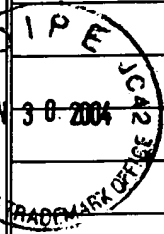
FILING DATE: February 13, 2002

EXAMINER: unknown

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,365,863	12/28/1982	Broussaud			
	AB	4,436,260	03/13/1984	Donelan			
	AC	4,961,627	10/09/1990	Swain et al.			
	AD	5,185,675	02/09/1993	Banks			
	AE	5,208,880	05/04/1993	Riza et al.			
	AF	5,222,071	06/22/1993	Pezeshki et al.			
	AG	5,223,971	06/29/1993	Magel			
	AH	5,233,673	08/03/1993	Vali et al.			
	AI	5,253,033	10/12/1993	Lipchak et al.			
	AJ	5,253,098	10/12/1993	Hikita et al.			
	AK	5,255,332	10/19/1993	Welch et al.			
	AL	5,268,974	12/07/1993	Hikita et al.			
	AM	5,345,521	09/06/1994	McDonald et al.			
	AN	5,373,393	12/13/1994	DeJule et al.			
	AO	5,682,449	10/28/1997	Taira-Griffin			
	AP	5,881,042	03/09/1999	Knight			
	AQ	5,927,798	07/13/1999	Aksyuk et al.			
	AR	5,943,159	08/24/1999	Zhu			
	AS	5,959,756	09/28/1999	Keyworth et al.			
	AT	5,963,682	10/05/1999	Dorschner et al.			
	AU	6,002,818	12/14/1999	Fatehi et al.			
	AV	6,008,834	12/28/1999	Lewis et al.			
	AW	6,031,946	02/29/2000	Bergmann et al.			
	AX	6,044,056	03/28/2000	Wilde et al.			
	AY	6,072,624	06/06/2000	Dixon et al.			08/30/1993
	AZ	6,084,227	07/04/2000	Rhoads			07/30/1997



	AAA	6,086,776	07/11/2000	Maynard			08/12/1996
	AAB	6,097,860	08/01/2000	Laor			06/05/1998
	AAC	6,104,478	08/15/2000	Giggenbach			01/15/1998
	AAD	6,108,466	08/22/2000	Aksyuk et al.			09/17/1998
	AAE	6,137,941	10/24/2000	Robinson			09/03/1998
	AAF	6,154,302	11/28/2000	Yagi et al.			11/13/1998
	AAG	6,163,643	12/19/2000	Bergmann et al.			08/12/1998
	AAH	6,173,105	01/09/2001	Aksyuk et al.			11/20/1998
	AAI	6,201,644	03/13/2001	Sakata et al.			11/12/1998
	AAJ	6,205,267	03/20/2001	Aksyuk et al.			11/20/1998
	AAK	6,300,619	10/09/2001	Aksyuk et al.			12/21/1997

FOREIGN PATENT DOCUMENTS

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL		
	AAL	Motamedi, M. Edward et al. "On-chip optical processing" Microelectronic Structures and MEMS for Optical Processing II. The International Society for Optical Engineering. Vol. 2881, October 1996. pp. 84-117
	AAM	Preliminary Data Sheet, Rev 2. "5200-Series 64x64 MEMS Optical Switch Module" Agere Systems, Inc. July 2001. (4 pages)
	AAN	Ford, James E. et al. "Micromechanical Fiber-Optic Attenuator with 3 μ s Response" Journal of Lightwave Technology. Vol. 16, No. 9. September 1998. pp. 1663-1670
	AAO	Goossen, K.W., et al. "Silicon Modulator Based on Mechanically-Active Anti-Reflection Layer with Mbit/sec Capability for Fiber-in-the-Loop Applications" IEEE Photonics Technology Letters. Vol. 6, No.9. September 1994. pp.1119-1121
	AAP	Barber, B. et al. "A Fiber Connectorized MEMS Variable Optical Attenuator" IEEE Photonics Technology Letters. Vol. 10, No. 9. September 1998. pp. 1262-1264
	AAQ	Reid, J.Robert et al. "Arrays of thermal micro-actuators coupled to micro-optical components" Air Force Institute of Technology. The International Society for Optical Engineering, Vol. 2865. pp. 74-82
	AAR	Walker, J.A. et al. "Performance and Packaging Implications of a MEMS Based Optical Modulator for WDM Fiber-To-The-Home Systems" IEEE Electronic Components and Technology Conference. 1997. pp. 601-606
	AAS	Lau, K.Y. "MEM's the Word for Optical Beam Manipulation" Circuits and Devices, IEEE. July 1997. pp. 11-18
	AAT	Ford, James E. et al. "Fiber-Coupled Variable Attenuator Using a MARS Modulator" Microelectronic Structures and MEMS for Optical Processing III. The International Society for Optical Engineering. Vol. 3226, September 1997. pp. 86-93
	AAU	Glockner, Steffan and Goring, Rolf. "Multichannel Fiber-Optic Switches based on MOEM Systems" Microelectronic Structures and MEMS for Optical Processing III. The International Society for Optical Engineering. Vol. 3226, September 1997. pp. 76-85
	AAV	CLEO '95. "Summary of Papers Presented at the Conference on Lasers and Electro-Optics." Optical Society of America. 1995 Technical Digest Series, Vol. 15. pp. 248-250
	AAW	Tien, Norman C. et al. "Actuation of polysilicon surface-micromachined mirrors" Miniaturized Systems with Micro-Optics and Micromechanics. The International Society for Optical Engineering. Vol 2687,

		January 1996. pp. 53-39
	AAX	Goring, Rolf et al. "Miniaturized optical switches based on piezoelectrically driven microprism arrays" Miniaturized Systems with Micro-Optics and Micromechanics. The International Society for Optical Engineering. Vol 2687, January 1996. pp. 23-31
EXAMINER		DATE CONSIDERED
<p>EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>		



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